

19102

11920

3 Hours / 50 Marks

Seat No.

--	--	--	--	--	--	--	--	--

- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any SEVEN of the following :

14

- (a) Describe the term “Slaked Lime”.
- (b) State any four uses of Sand.
- (c) Enlist the uses of Cement.
- (d) State two properties of Portland Cement.
- (e) Give classification of Bricks.
- (f) Give size, shape, weight & of brick.
- (g) State function of frog provided in brick.
- (h) State characteristics of good building stone.
- (i) Enlist different types of bond used in brick masonry.
- (j) Explain with proportionate sketches – Mortice joint.

- 2. Attempt any FOUR of the following : 12**
- (a) Explain bulking of Sand.
 - (b) State the advantages of High alumina cement.
 - (c) State three important tests to which bricks are subjected.
 - (d) State any three commercial varieties of timber. Give two uses of each.
 - (e) Differentiate wall footing and column footing.
 - (f) State any three lengthening joints in timber along with neat sketches.
- 3. Attempt any FOUR of the following : 12**
- (a) Distinguish between Fat lime & Hydraulic lime.
 - (b) Draw plan, elevation & section of 450 mm thick random rubble masonry.
 - (c) Write down the properties of a Good Timber.
 - (d) Describe Surkhi mortar and state its uses.
 - (e) Sketch and explain inverted arch footing.
 - (f) State different types of joints used in carpentry work.
- 4. Attempt any FOUR of the following : 12**
- (a) State properties of white cement, rapid hardening cement and blast furnace slag cement.
 - (b) What is Dressing of Stone ? Explain with sketch.
 - (c) State various types of concrete giving their specific applications.
 - (d) State three purposes of foundation in any kind of construction work.
 - (e) Explain the procedure of bonding old work with new work.
 - (f) Explain with the help of neat sketch ashlar masonry.
-